National Regional Sediment Management

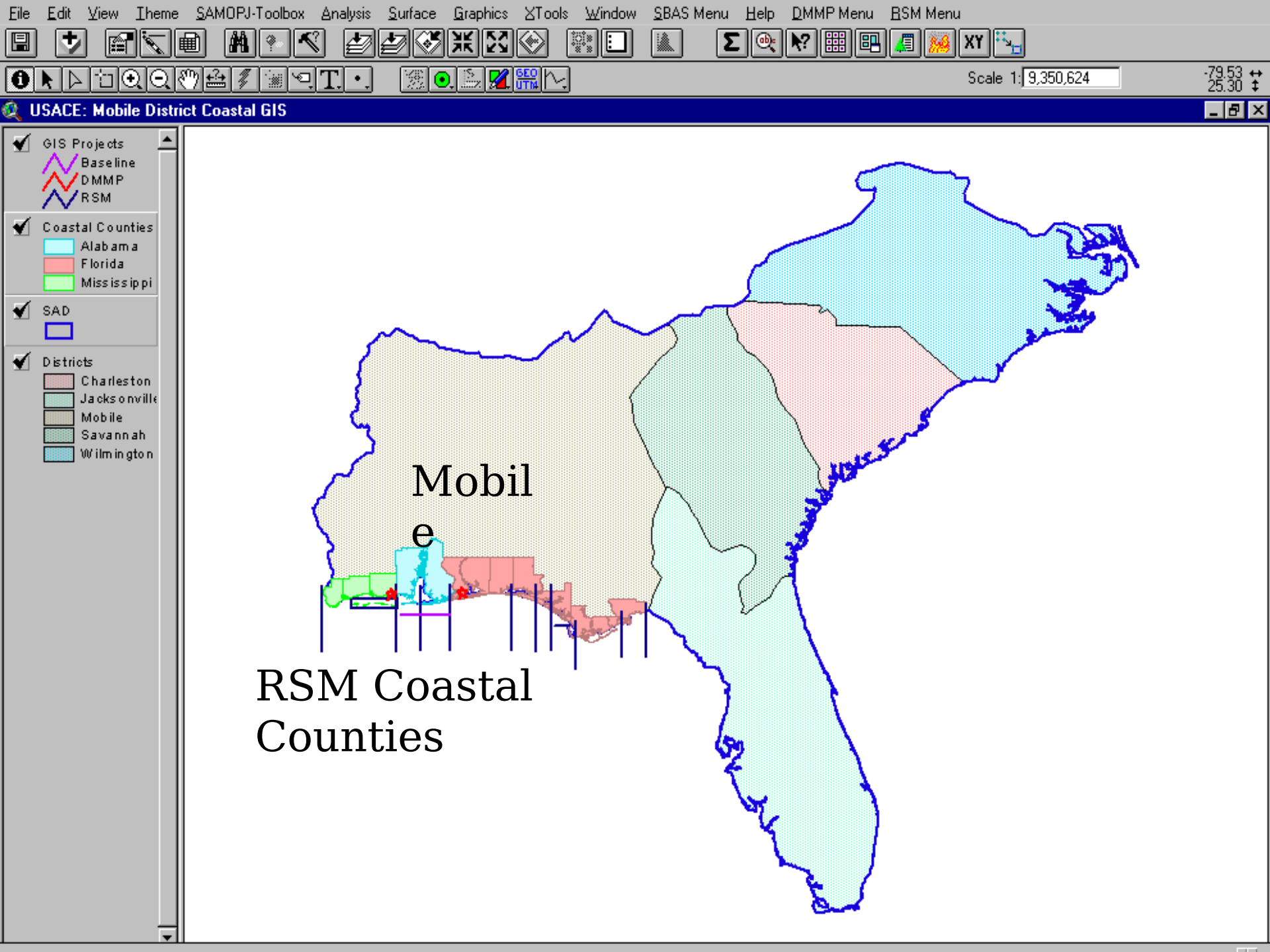
An Enterprise Coastal GIS

Lynn Copeland Hardegree, Engineering Division

US Army Corps of Engineers ®
Mobile District

Regional Sediment Management

- Regional Sediment Management (RSM) refers to the effective utilization of littoral, estuarine, and riverine sediment resources in an environ-mentally effective and economical manner.

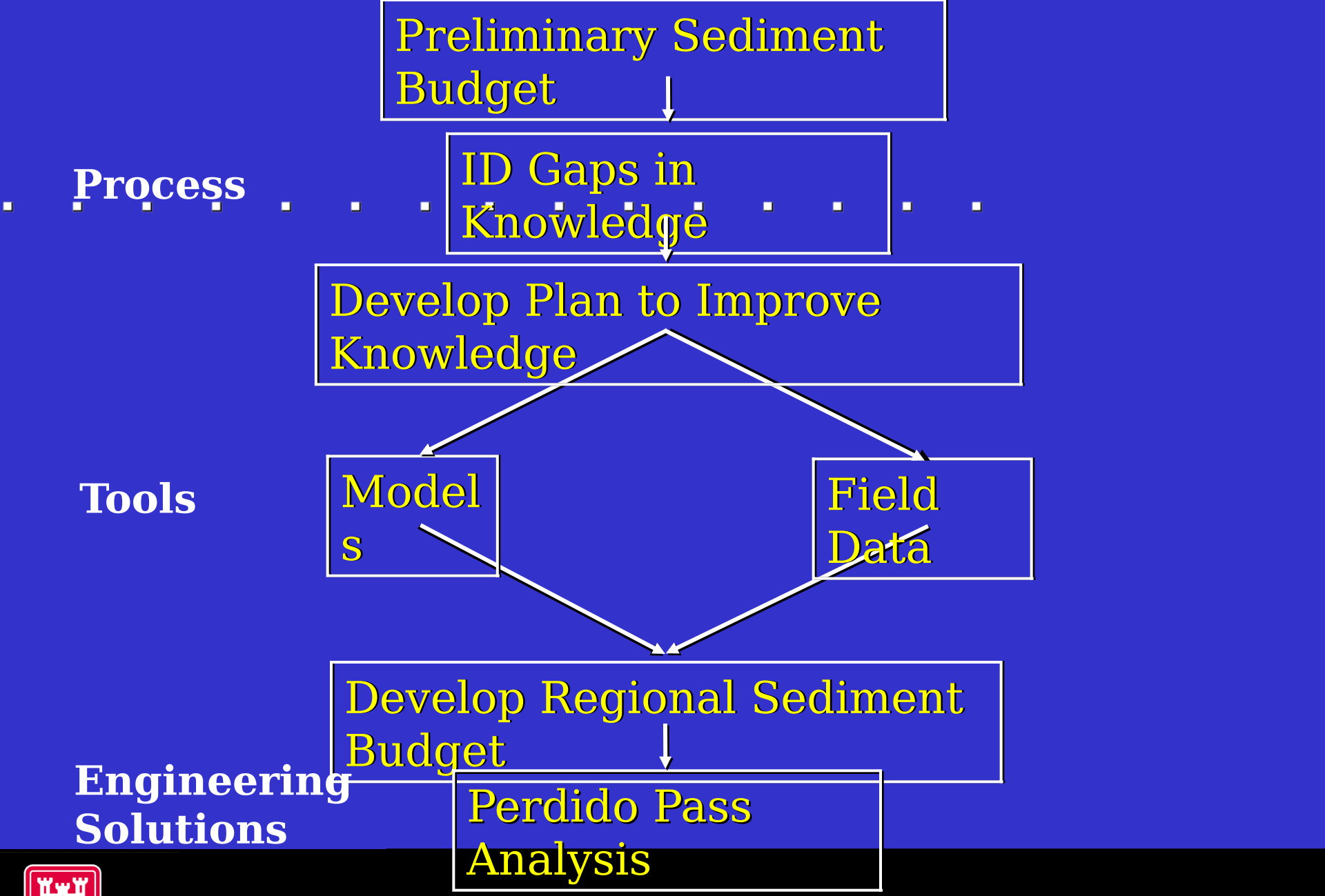

File Edit View Theme SAMOPJ-Toolbox Analysis Surface Graphics XTools Window SBAS Menu Help DMMP Menu RSM Menu
Scale 1: 9,350,624
-79.53
25.30
USACE: Mobile District Coastal GIS
GIS Projects
Baseline
DMMP
RSM
Coastal Counties
Alabama
Florida
Mississippi
SAD
Districts
Charleston
Jacksonville
Mobile
Savannah
Wilmington
Mobil
e
RSM Coastal
Counties

CESAM's RSM GIS

- Provides RSM scientists and engineers an interface to hydrographic, topographic, photogrammetric, and historic dredge material data for the RSM region, as well as custom applications designed to facilitate engineering analyses.

Why use a GIS?

- Develop a sediment budget for the region
- Facilitate the sharing of data
- Institutional knowledge


Preliminary Sediment Budget
Process
ID Gaps in Knowledge
Develop Plan to Improve Knowledge
Tools
Model s
Field Data
Develop Regional Sediment Budget
Engineering Solutions
Perdido Pass Analysis

Regional Sediment Management GIS

Data Manac nt

- Geospatial
- Reports
- Historic Information
- Model Results
- Time Series

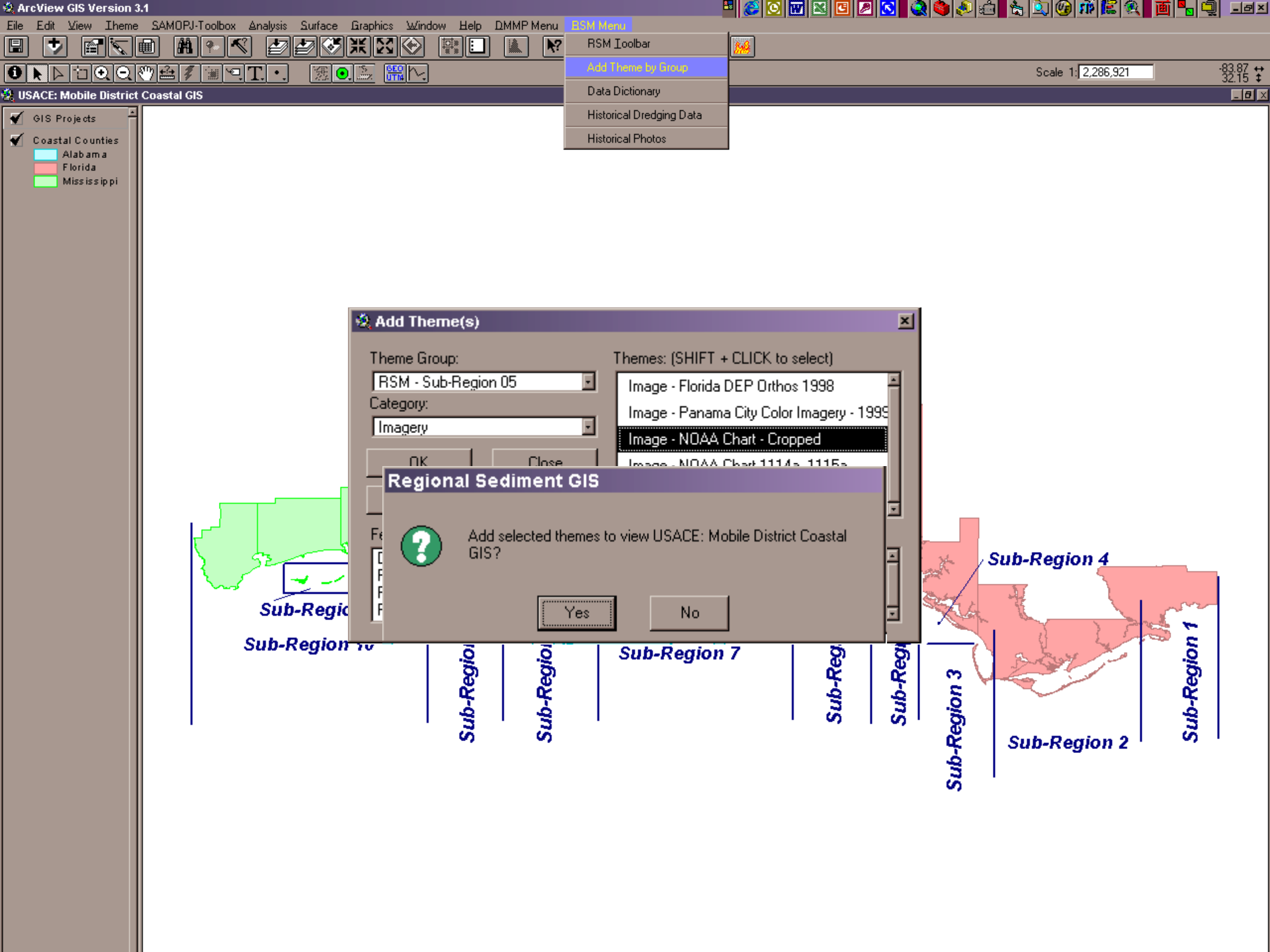
Dredging Management

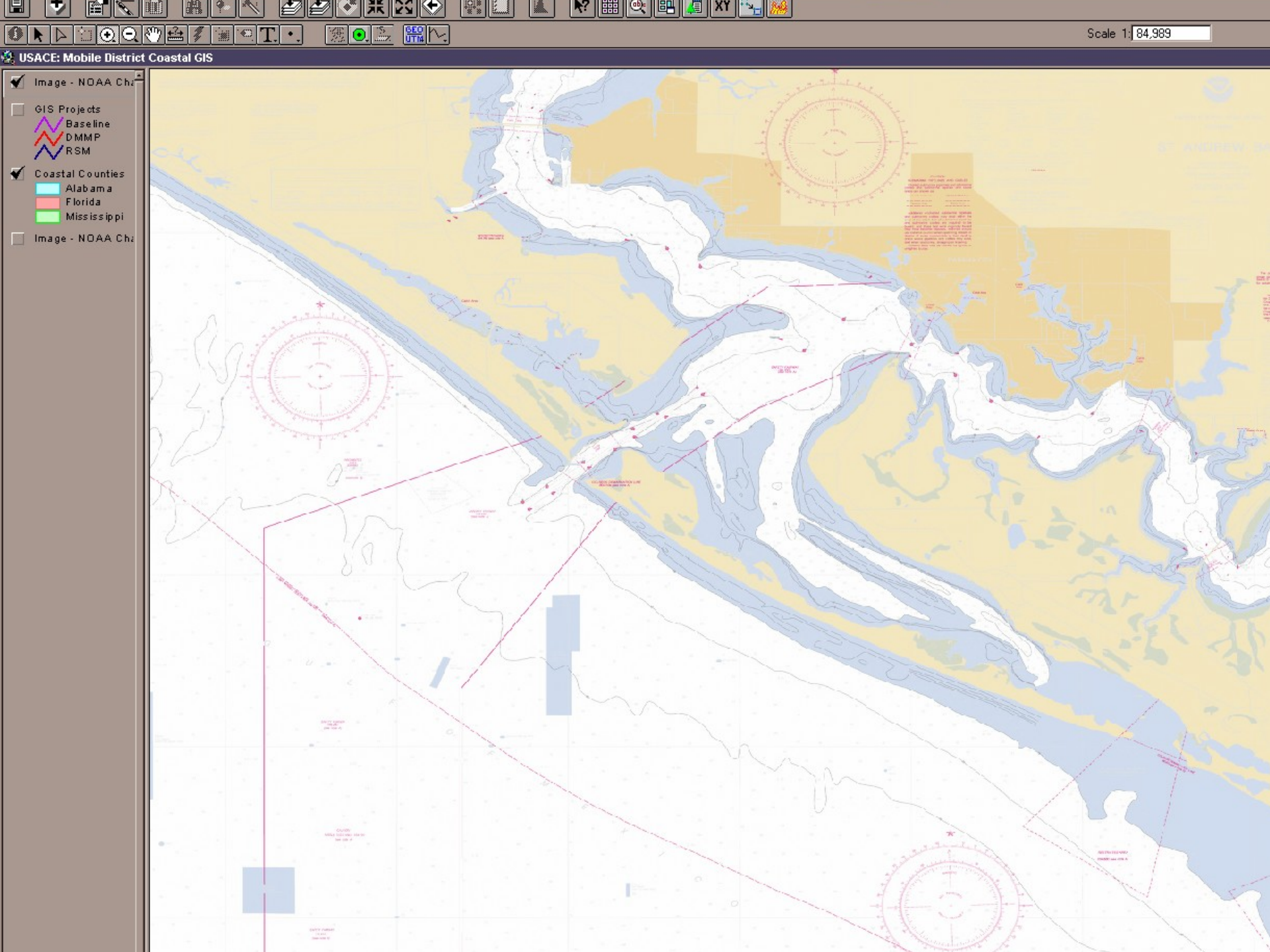
Sediment Budget Analysis

Environmental

Impact Evaluation

US Army Corps of Engineers ®
Mobile District

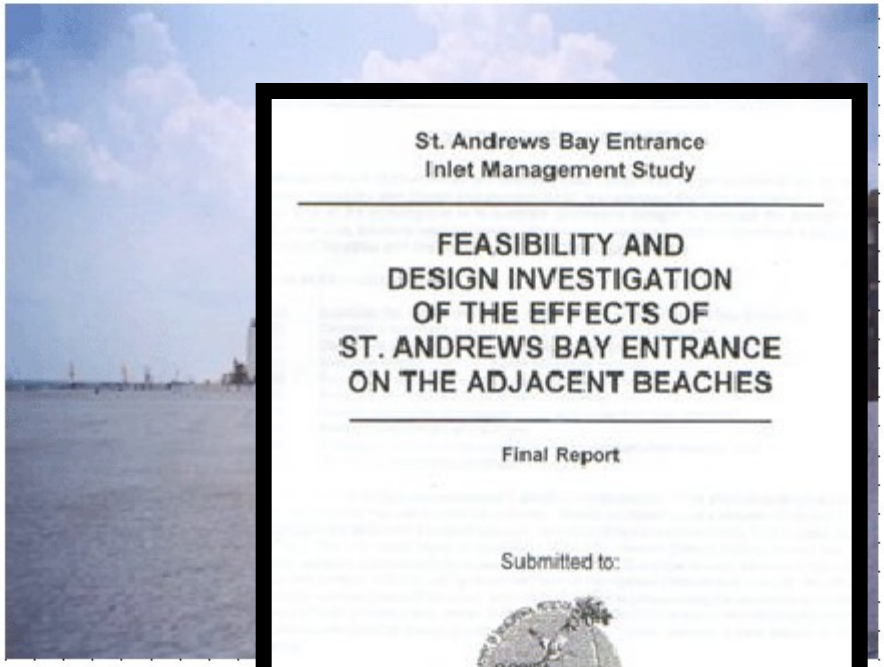

ArcView GIS Version 3.1
File Edit View Theme SAMOPJ-Toolbox Analysis Surface Graphics Window Help DMMP Menu BSM Menu
RSM Toolbar
Add Theme by Group
Data Dictionary
Historical Dredging Data
Historical Photos
Scale 1: 2,286,921
-83.87
32.15
USACE: Mobile District Coastal GIS
GIS Projects
Coastal Counties
Alabama
Florida
Mississippi
Add Theme(s)
Theme Group:
RSM - Sub-Region 05
Category:
Imagery
OK
Close
Themes: (SHIFT + CLICK to select)
Image - Florida DEP Orthos 1998
Image - Panama City Color Imagery - 1999
Image - NOAA Chart - Cropped
Regional Sediment GIS
Add selected themes to view USACE: Mobile District Coastal GIS?
Yes
No
Sub-Region 4
Sub-Region 7
Sub-Region 3
Sub-Region 2
Sub-Region 1


Scale 1: 84,989
USACE: Mobile District Coastal GIS
Image - NOAA Cha
GIS Projects
Baseline
DMMP
RSM
Coastal Counties
Alabama
Florida
Mississippi
Image - NOAA Cha

ArcView GIS Version 3.1

File Edit Layout Graphics Window Help

EastPass - 6/1/70 Report



St. Andrews Bay Entrance
Inlet Management Study

FEASIBILITY AND DESIGN INVESTIGATION OF THE EFFECTS OF ST. ANDREWS BAY ENTRANCE ON THE ADJACENT BEACHES

Final Report

Submitted to:

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Division of Recreation & Parks
and
Office of Beaches & Coastal Systems
FDEP Contract DC-083-No.2

Submitted by:

COASTAL TECH

April 1, 2000

Panama City - Post August 1999

Photo Group: Panama City
Photo File: $RSMDD_HOME_sedime
Photo Date: August 1999

RSM Tools

Create New View
Select All Themes

Add Data
Add Basemap Data
Add in Theme(s)
Excel GPS Points

View Documents:
Theme Documents
Maps/Boring Logs
RSM Website

Document Manager

Themes in View:
Transport Rates
Counties

Available Documents:
Reports

Display Refresh

Modeling Approach

- **ADCIRC** - Water-Levels and Circulation
- **WIS -** Wave Hindcast
- **STWAVE -** Wave Transformation
- **GENESIS -** Shoreline Change/Transport
- **SMS** - Surface Modeling System

Mobile District Coastal GIS Data Dictionary

Group Name	Common Name	File Name	Theme Type	Feature Class	File Path
RSM - Regional Area	Alabama Navigation Channels	rsm_dd_al_channels.shp	shape	point	$RSMDD_HOME/_sediment_dd/feature/shape/regional/
Description:	Alabama federal navigation channels maintained by the MDO.				
RSM - Regional Area	Alabama Navigation Channels Limits	rsm_dd_al_channels_polygons.shape		polygon	$RSMDD_HOME/_sediment_dd/feature/shape/regional/
Description:	Polygon boundaries of Alabama federal navigation channels maintained by the MDO.				
RSM - Regional Area	Alabama Navigation Channels Stationing	rsm_dd_al_channels_stationing.shape		line	$RSMDD_HOME/_sediment_dd/feature/shape/regional/
Description:	Cross sections and centerlines of Alabama federal navigation channels maintained by the MDO.				
RSM - Regional Area	Cities & Towns	rsm_dd_towns.shp	shape	point	$RSMDD_HOME/_sediment_dd/feature/shape/regional/zone_04/
Description:	Cities & Towns in region.				
RSM - Regional Area	Coastal Points of Interest	rsm_dd_coastal_ims.shp	shape	point	$RSMDD_HOME/_sediment_dd/feature/shape/regional/
Description:	Coastal points of interest.				
RSM - Regional Area	COE - SAD Boundaries	rsm_dd_sad.shp	shape	polygon	$RSMDD_HOME/_sediment_dd/feature/shape/regional/
Description:	Legend for SAD boundary theme in Regional view.				
RSM - Regional Area	Congressional Districts	rsm_dd_congress.shp	shape	polygon	$RSMDD_HOME/_sediment_dd/feature/shape/regional/
Description:	Congressional Districts				
RSM - Regional Area	Cropped Quad Sheet - Bay Minette	crop_f30087e1_utm.sid	georaster	image	$RSMDD_HOME/_sediment_dd/georast/quadsheets/
Description:	30 x 60 Minute Quad Sheet - 1:100,000 - 1978 (cropped)				
RSM - Regional Area	Cropped Quad Sheet - Biloxi to Dauphin	crop_f30088a1_utm.sid	georaster	image	$RSMDD_HOME/_sediment_dd/georast/quadsheets/
Description:	30 x 60 Minute Quad Sheet - 1:100,000 - 1978 (cropped)				
RSM - Regional Area	Cropped Quad Sheet - Carabelle	crop_f29084e1_utm.sid	georaster	image	$RSMDD_HOME/_sediment_dd/georast/quadsheets/
Description:	30 x 60 Minute Quad Sheet - 1:100,000 - 1978 (cropped)				

Regional Sediment Management GIS

Management

Dredging Management

- Dredging History
- Laboratory

Reports

- Placement

Design

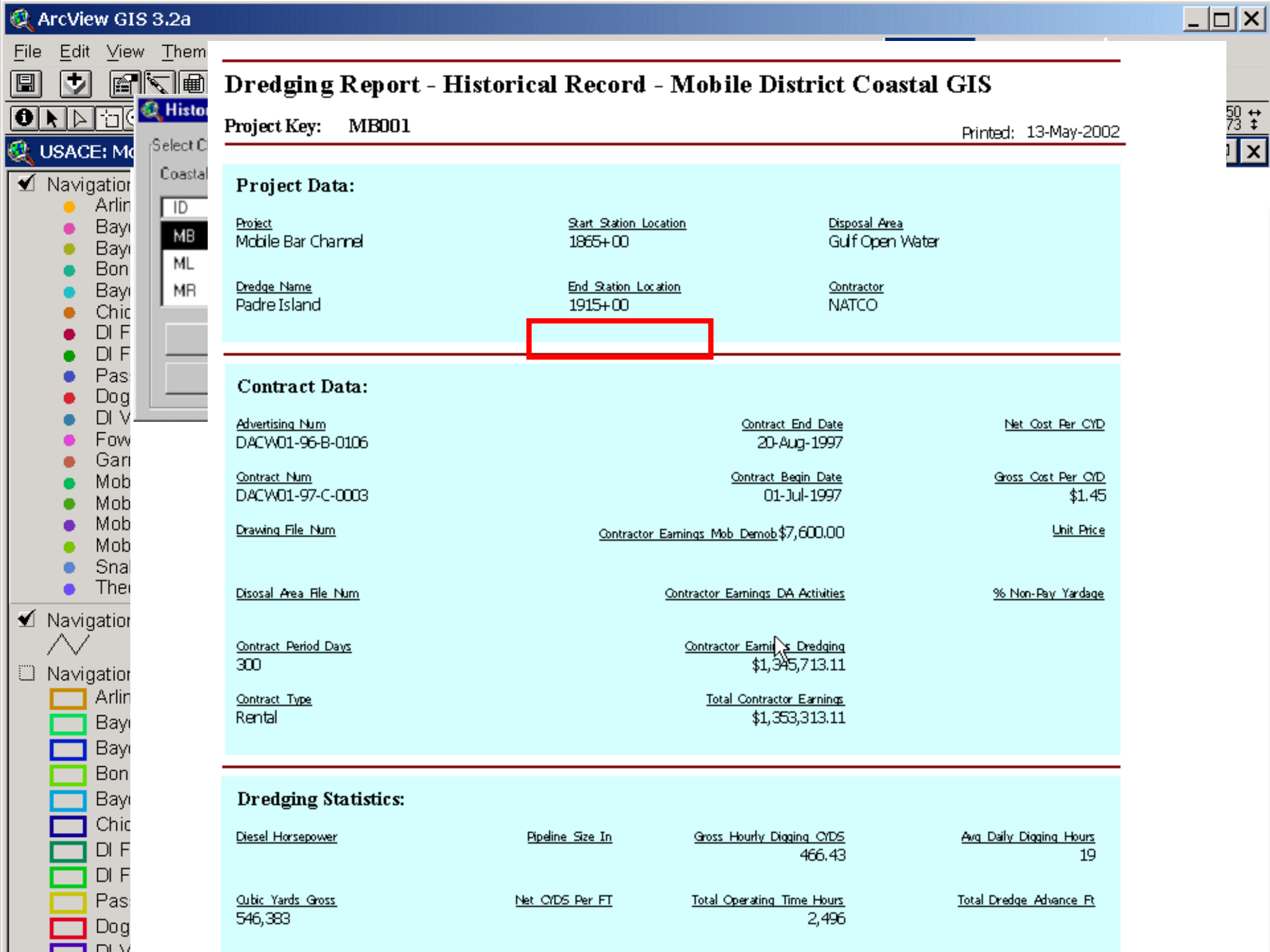
Data Management

Sediment Budget Analys

Environmental

Impact Evaluation

US Army Corps of Engineers ®
Mobile District


ArcView GIS 3.2a
File Edit View Them
USACE: Mc
Navigation
Arlin
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The
Navigation
Navigation
Arlin
Bay
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Bon
Bay
Chic
Dl F
Dl F
Pas
Dog
Histo
Select C
Coastal
ID
MB
ML
MR
Dredging Report - Historical Record - Mobile District Coastal GIS
Project Key: MB001
Printed: 13-May-2002
Project Data:
Project
Mobile Bar Channel
Start Station Location
1865+00
Disposal Area
Gulf Open Water
Dredge Name
Padre Island
End Station Location
1915+00
Contractor
NATCO
Contract Data:
Advertising Num
DACW01-96-B-0106
Contract End Date
20-Aug-1997
Net Cost Per CYD
Contract Num
DACW01-97-C-0003
Contract Begin Date
01-Jul-1997
Gross Cost Per CYD
$1.45
Drawing File Num
Contractor Earnings Mob Demob
$7,600.00
Unit Price
Disosal Area File Num
Contractor Earnings DA Activities
% Non-Pay Yardage
Contract Period Days
300
Contractor Earnings Dredging
$1,345,713.11
Contract Type
Rental
Total Contractor Earnings
$1,353,313.11
Dredging Statistics:
Diesel Horsepower
Pipeline Size In
Gross Hourly Digging CYDS
466.43
Avg Daily Digging Hours
19
Cubic Yards Gross
546,383
Net CYDS Per FT
Total Operating Time Hours
2,496
Total Dredge Advance Ft

ArcView GIS Version 3.1
File Edit View Theme SAMOPJ-Toolbox Analysis Surface Graphics Window Help DMMP Menu RSM Menu
Scale 187,878
USACE: Mobile District Coastal GIS
Boring Logs
GIS Projects
Baseli
DMMP
RSM
Coastal Poir
Institutions
Transportati
Recreation
Highway Exi
Railroads
Retail Cente
Parks
Major Lakes
Municipalitie
RSM Zone 9
Coastal Cou
Alabar
Florida
Missis

BORING LOG	SOUTH ATLANTIC DIVISION	MOBILE DISTRICT	CORPS OF ENGINEERS	SHEET 1 OF 2 SHEETS

PROJECT AND LOCATION: PASCAGOULA CHANNEL DEEPENING

COORDINATES: N ~~193,534~~ 197,031 E 601,768

SIZE & TYPE OF BIT: SPLITSPOON; 300 LB. HAMMER

TYPE OF DRILL: F 314 SEAHORSE BARGE

DRILLING AGENCY: MOBILE DISTRICT

HOLE NO.: SS-2-82

NAME OF DRILLER, INSPECTOR: J. DETLOFF; B. BRYANT

DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.

THICKNESS OF OVERBURDEN | TOTAL NO. OF CORE

DEPTH DRILLED INTO ROCK | GROUND WATER FIRST

TOTAL DEPTH OF HOLE 31.5' | STATIC GROUND WATE

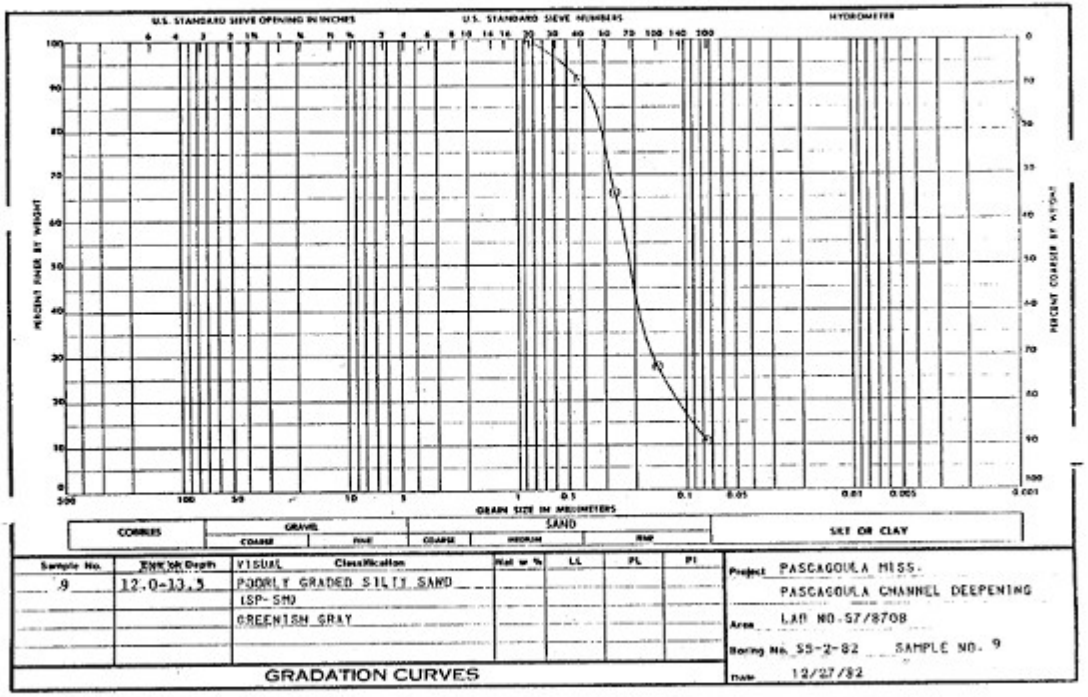
DEPTH IN FT.	W/C %	SYM	CLASSIFICATION (DESCRI
0.0			BROWN & GREEN
1.5			SILTY CLAYEY S
3.0			BROWN & GREENI
			SILTY SAND (SM
4.5			TAN PR. GRD. SIL
			(SP-SM)
6.0			GREENISH GRAY
7.5			W/TR. OF SHELL
			TAN PR. GRD. SA
9.0			W/A TR. OF SHE
10.5			GREENISH GRAY
			(SM) W/A TR. OF
12.0			GREENISH GRAY F
			SILTY SAND (SP-
13.5			GREENISH GRAY
			SILTY SAND (SP
15.0			GREENISH GRAY,
	29		HIGH LL (SC-H)
16.5			GREENISH GRAY S
	35		W/SOME SAND &
18.0			CONT

FORM 927 DEC 82 | REMARKS | PREVIOUS EDITIONS OF

A3-6

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY
CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

W.O. No. 5351
Reg. No. 10-83-FAM



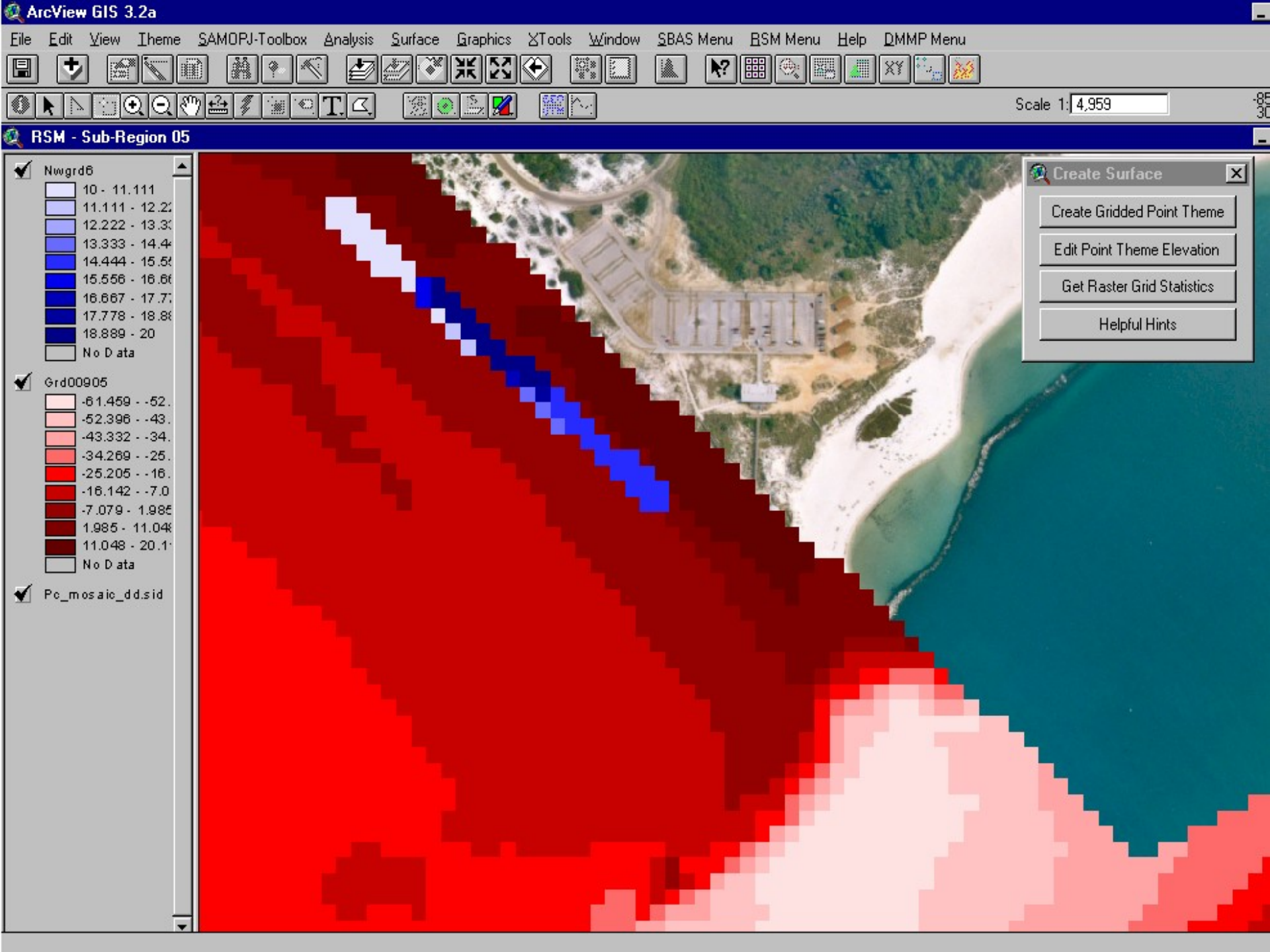
Sample No.	Depth or Elev. or Depth	Visual Classification	Nat. w %	LL	PL	PI
9	12.0-13.5	POORLY GRADED SILTY SAND (SP-SM) GREENISH GRAY				

Project: PASCAGOULA MISS. PASCAGOULA CHANNEL DEEPENING
Area: LAB NO. 57/8708
Boring No. SS-2-82 SAMPLE NO. 9
Date: 12/27/82

GRADATION CURVES

ENG. FORM 2087

8-SV


ArcView GIS 3.2a
File Edit View Theme SAMOPJ-Toolbox Analysis Surface Graphics XTools Window SBAS Menu RSM Menu Help DMMP Menu
Scale 1: 4,959
RSM - Sub-Region 05
Nwgrd6
10 - 11.111
11.111 - 12.2
12.222 - 13.3
13.333 - 14.4
14.444 - 15.5
15.556 - 16.6
16.667 - 17.7
17.778 - 18.8
18.889 - 20
No Data
Grd00905
-61.459 - -52.
-52.396 - -43.
-43.332 - -34.
-34.269 - -25.
-25.205 - -16.
-16.142 - -7.0
-7.079 - 1.985
1.985 - 11.048
11.048 - 20.1
No Data
Pc_mosaic_dd.sid
Create Surface
Create Gridded Point Theme
Edit Point Theme Elevation
Get Raster Grid Statistics
Helpful Hints

Regional Sediment Management GIS

Data Management

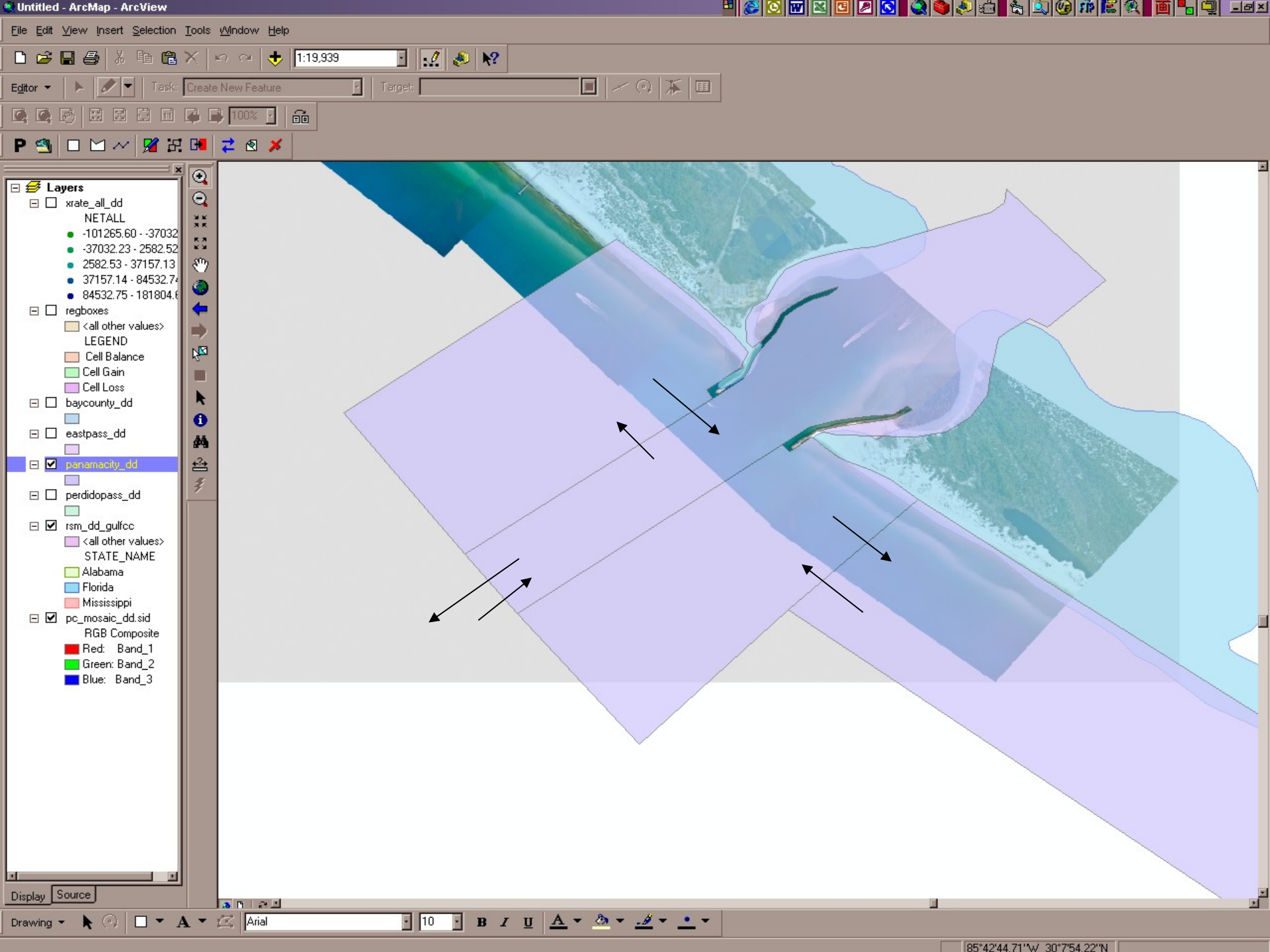
Dredge Management

Environmental

Impact Evaluation

Sediment Budget Analysis

- Create
- Compute
- Visualize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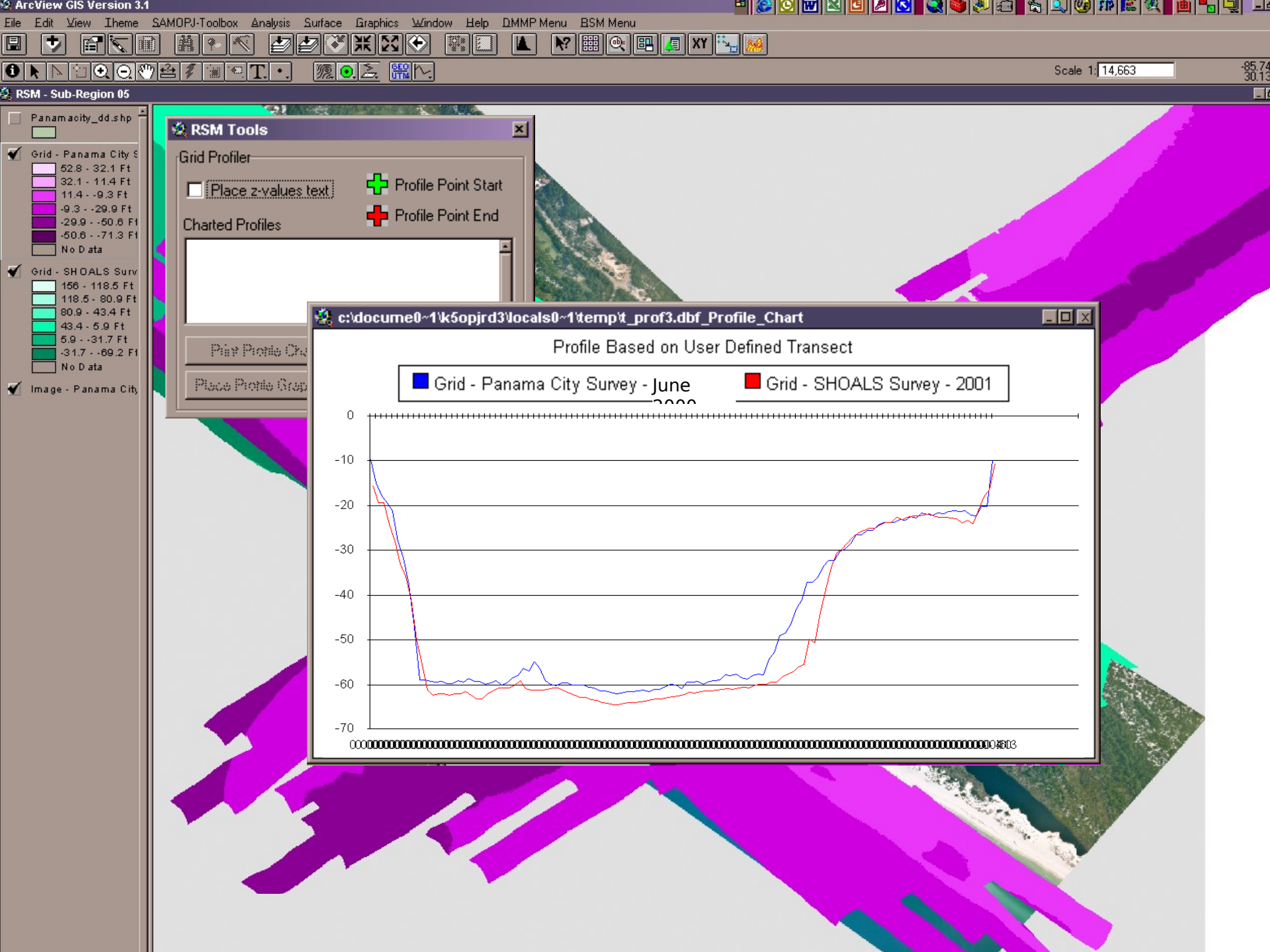
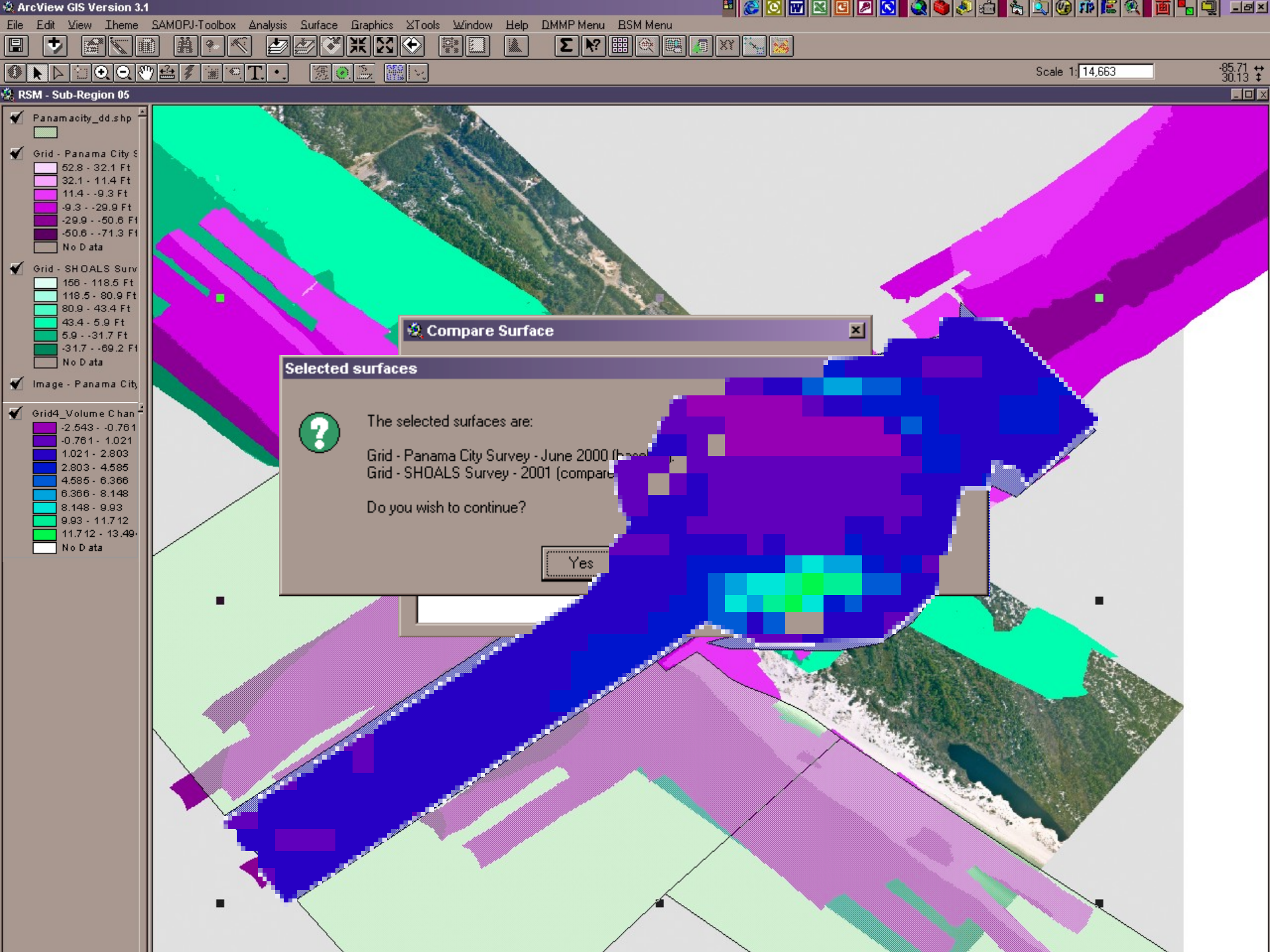
File Edit View Insert Selection Tools Window Help
1:19,939
Editor
Task: Create New Feature
Target:
100%
Layers
xrate_all_dd
NETALL
-101265.60 - -37032
-37032.23 - 2582.52
2582.53 - 37157.13
37157.14 - 84532.74
84532.75 - 181804.6
regboxes
<all other values>
LEGEND
Cell Balance
Cell Gain
Cell Loss
baycounty_dd
eastpass_dd
panamacity_dd
perdidopass_dd
rsm_dd_gulfcc
<all other values>
STATE_NAME
Alabama
Florida
Mississippi
pc_mosaic_dd.sid
RGB Composite
Red: Band_1
Green: Band_2
Blue: Band_3
Display
Source
Drawing
Arial
10
85°42'44.71"W 30°7'54.22"N


ArcView GIS Version 3.1
File Edit View Theme SAMOPJ-Toolbox Analysis Surface Graphics Window Help DMMP Menu BSM Menu
Scale 1: 14,663
RSM - Sub-Region 05
Panamacity_dd.shp
Grid - Panama City S
52.8 - 32.1 Ft
32.1 - 11.4 Ft
11.4 - -9.3 Ft
-9.3 - -29.9 Ft
-29.9 - -50.6 Ft
-50.6 - -71.3 Ft
No Data
Grid - SHOALS Surv
156 - 118.5 Ft
118.5 - 80.9 Ft
80.9 - 43.4 Ft
43.4 - 5.9 Ft
5.9 - -31.7 Ft
-31.7 - -69.2 Ft
No Data
Image - Panama City
RSM Tools
Grid Profiler
Place z-values text
Profile Point Start
Profile Point End
Charted Profiles
c:\docume0~1\k5opjrd3\locals0~1\temp\t_prof3.dbf_Profile_Chart
Profile Based on User Defined Transect
Grid - Panama City Survey - June
Grid - SHOALS Survey - 2001
0
-10
-20
-30
-40
-50
-60
-70


ArcView GIS Version 3.1
File Edit View Theme SAMOPJ-Toolbox Analysis Surface Graphics XTools Window Help DMMP Menu BSM Menu
Scale 1: 14,663
RSM - Sub-Region 05
Panamacity_dd.shp
Grid - Panama City S
52.8 - 32.1 Ft
32.1 - 11.4 Ft
11.4 - -9.3 Ft
-9.3 - -29.9 Ft
-29.9 - -50.6 Ft
-50.6 - -71.3 Ft
No Data
Grid - SHOALS Surv
156 - 118.5 Ft
118.5 - 80.9 Ft
80.9 - 43.4 Ft
43.4 - 5.9 Ft
5.9 - -31.7 Ft
-31.7 - -69.2 Ft
No Data
Image - Panama City
Grid4_Volume Chan
-2.543 - -0.761
-0.761 - 1.021
1.021 - 2.803
2.803 - 4.585
4.585 - 6.366
6.366 - 8.148
8.148 - 9.93
9.93 - 11.712
11.712 - 13.49
No Data
Compare Surface
Selected surfaces
The selected surfaces are:
Grid - Panama City Survey - June 2000
Grid - SHOALS Survey - 2001 (compare
Do you wish to continue?
Yes

Untitled - ArcMap - ArcView

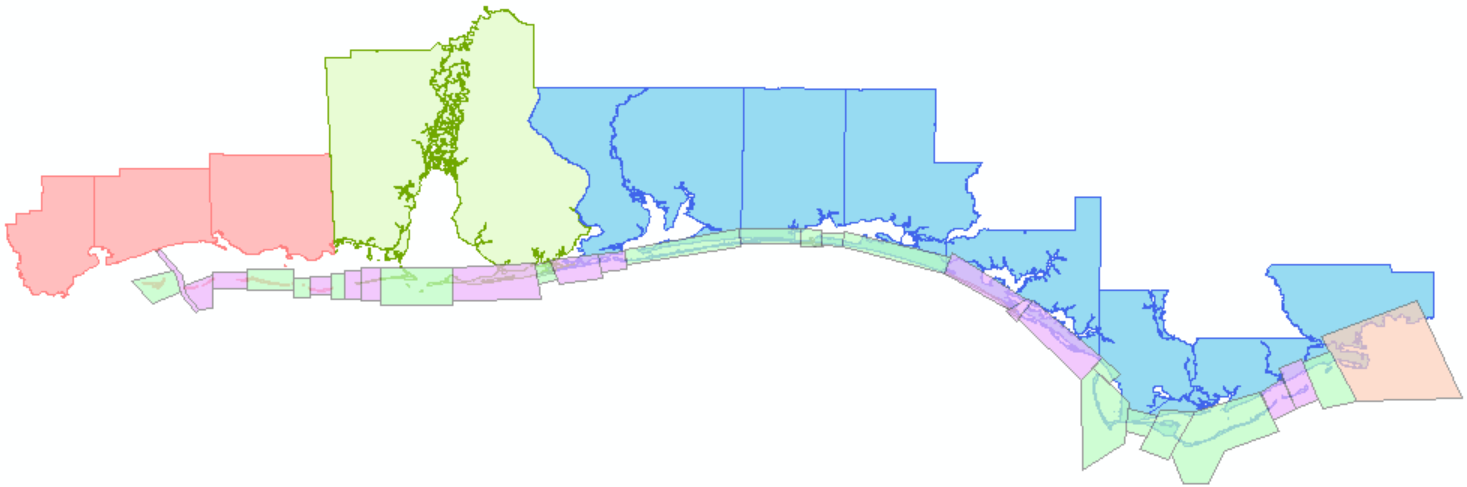
File Edit View Insert Selection Tools Window Help

1:2,476,771

Editor Task: Create New Feature Target:

100%

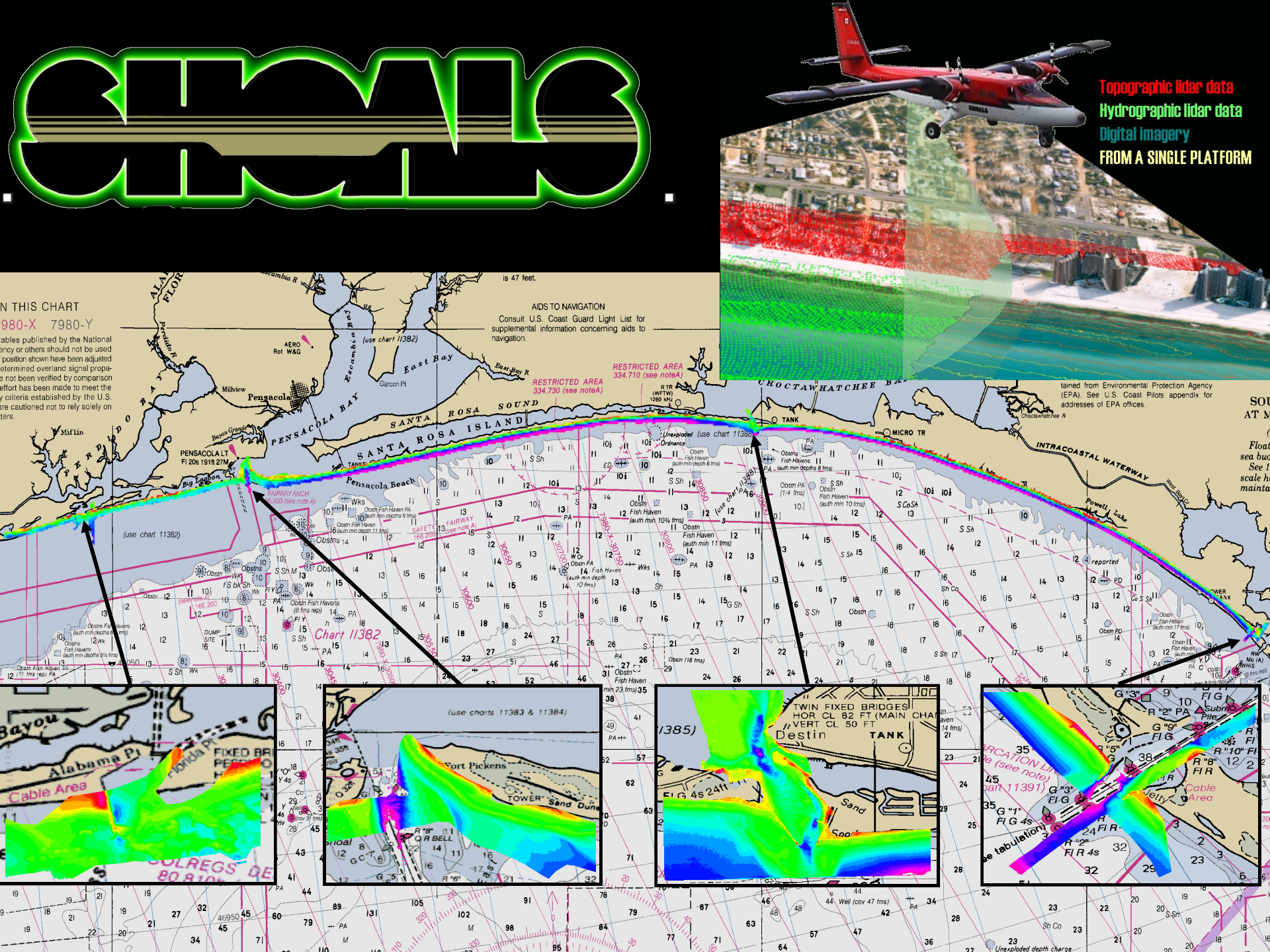
Layers
- xrate_all_dd
  - NETALL
  - -101265.60 - -37032
  - -37032.23 - 2582.52
  - 2582.53 - 37157.13
  - 37157.14 - 84532.74
  - 84532.75 - 181804.6
- regboxes
  - <all other values>
  - LEGEND
  - Cell Balance
  - Cell Gain
  - Cell Loss
- baycounty_dd
- eastpass_dd
- panamacity_dd
- perdidopass_dd
- rsm_dd_gulfcc
  - <all other values>
  - STATE_NAME
  - Alabama
  - Florida
  - Mississippi

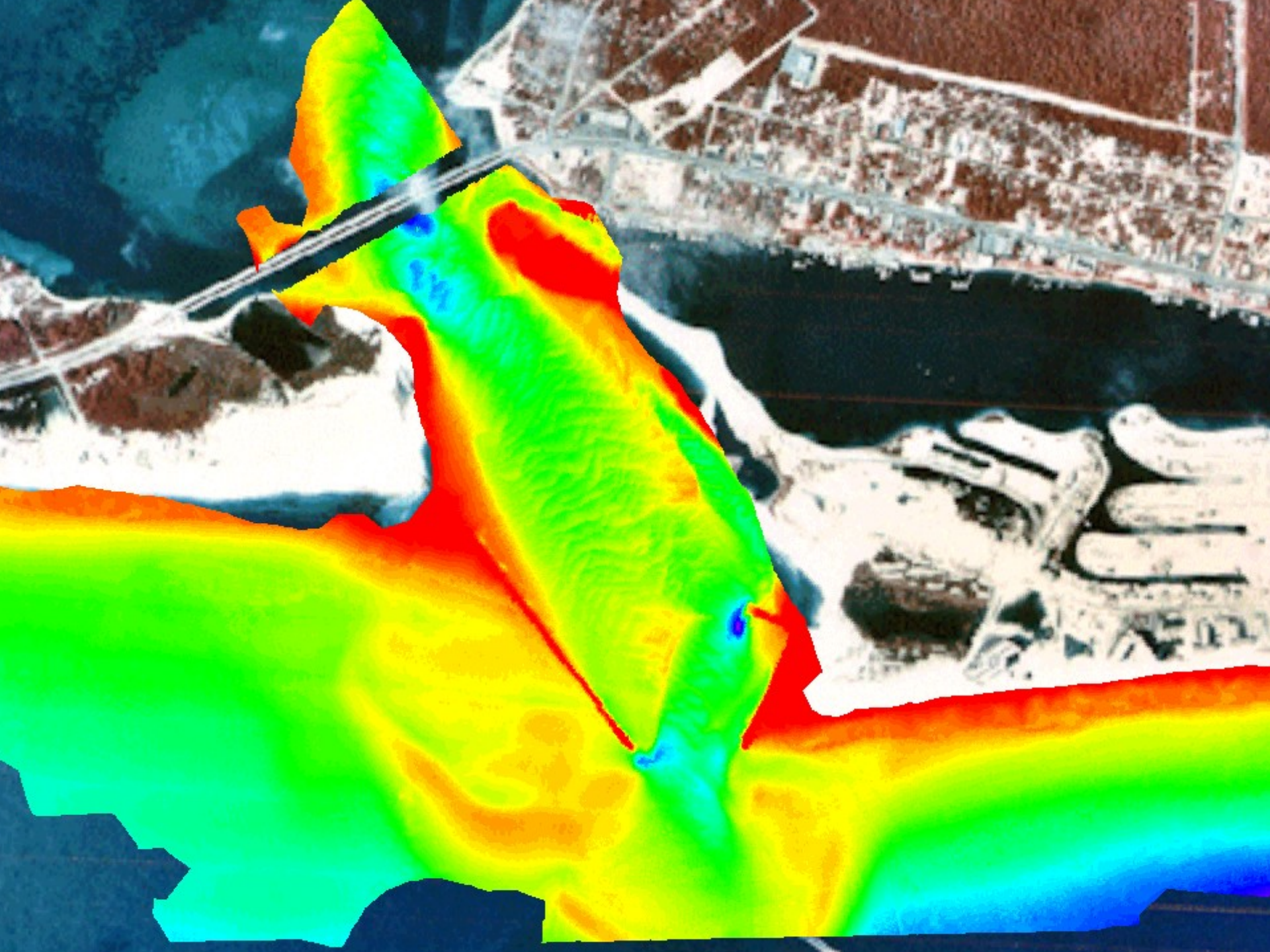


Display Source

CZMIL

Topographic lidar data
Hydrographic lidar data
Digital imagery
FROM A SINGLE PLATFORM


AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
RESTRICTED AREA 334.730 (see noteA)
RESTRICTED AREA 334.710 (see noteA)
PENSACOLA BAY
SANTA ROSA SOUND
SANTA ROSA ISLAND
Pensacola
Pensacola Beach
Millview
Garcon Pt
East Bay
East Bay R
Escambia Bay
Escambia R
Perdido Bay
Perdido R
Big Lagoon
Bayou Grande
PENSACOLA LT
Fl 20s 191ft 27M
Miflin
AERO
Rot W&G
(use chart 11382)
(use chart 11383 & 11384)
(use chart 11386)
Unexploded Ordnance
TANK
MICRO TR
CHOCTAWHATCHEE BAY
Choctawhatchee R
INTRACOASTAL WATERWAY
Powell Lake
Chart 11382
Destin
TWIN FIXED BRIDGES
HOR CL 82 FT (MAIN CHA
VERT CL 50 FT
Fort Pickens
TOWER
Sand Dune
Alabama Pt
Cable Area
Jetty
Fl G 4s 24ft
Fl R 4s
Fl G 4s
Fl R
Fl G
Obstn
Wk
PA
Well (cov 47 ms)
Unexploded depth charge



Regional Sediment Management GIS

Data Management

Manac

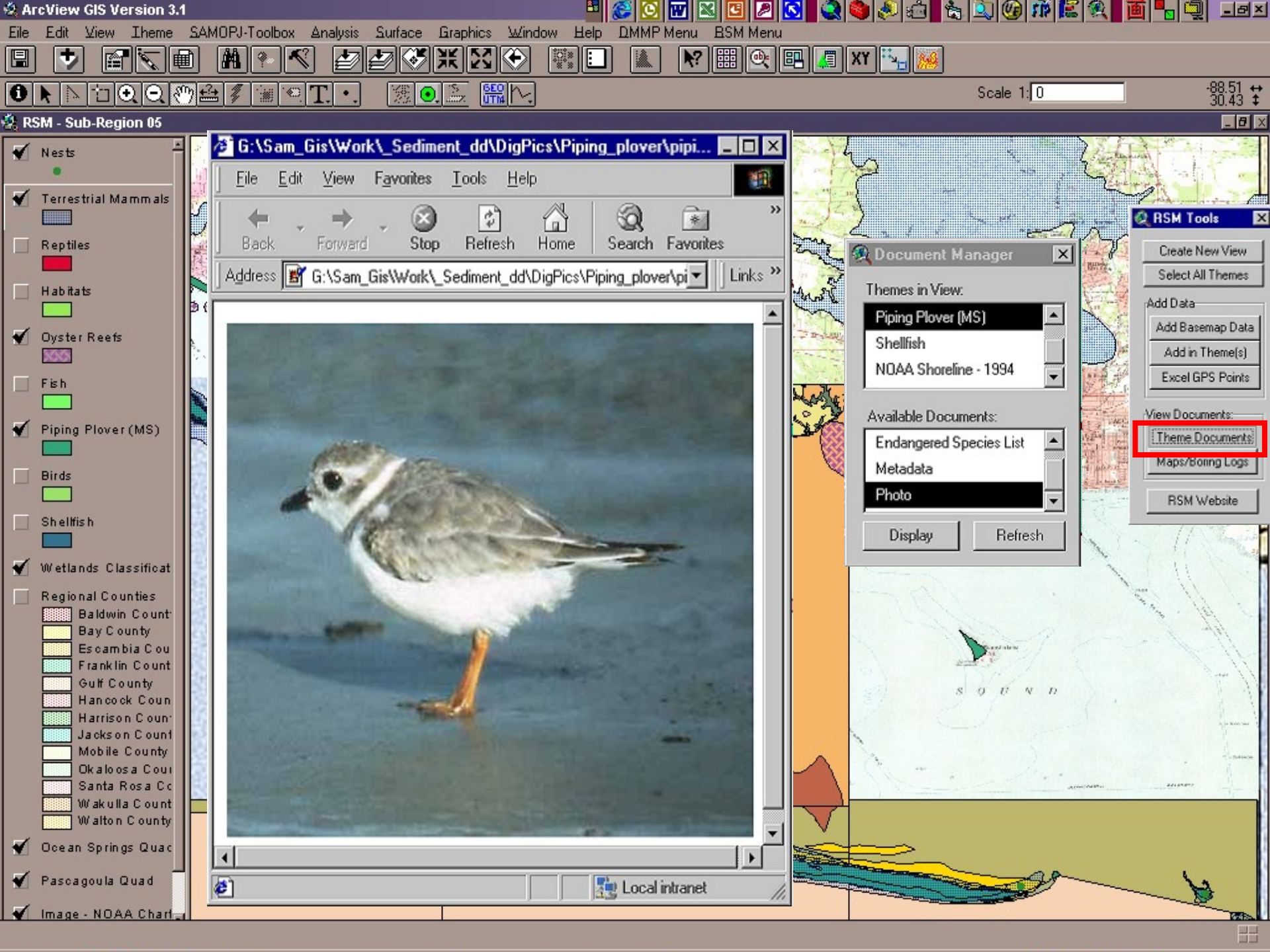
Dredge Management

Sediment Budget Analysis

Impact Evaluation

Environmental

- Inventory
- Change Analysis
- Permitting
- Water Quality


ArcView GIS Version 3.1
File Edit View Theme SAMOPJ-Toolbox Analysis Surface Graphics Window Help DMMP Menu BSM Menu
Scale 1: 0
-88.51
30.43
RSM - Sub-Region 05
Nests
Terrestrial Mammals
Reptiles
Habitats
Oyster Reefs
Fish
Piping Plover (MS)
Birds
Shellfish
Wetlands Classificat
Regional Counties
Baldwin Count
Bay County
Escambia Cou
Franklin Count
Gulf County
Hancock Coun
Harrison Coun
Jackson Count
Mobile County
Okaloosa Cou
Santa Rosa Co
Wakulla Count
Walton County
Ocean Springs Quac
Pascagoula Quad
Image - NOAA Chart
G:\Sam_Gis\Work_Sediment_dd\DigPics\Piping_plover\pipi...
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites
Address G:\Sam_Gis\Work_Sediment_dd\DigPics\Piping_plover\pi
Links
Local intranet
Document Manager
Themes in View:
Piping Plover (MS)
Shellfish
NOAA Shoreline - 1994
Available Documents:
Endangered Species List
Metadata
Photo
Display
Refresh
RSM Tools
Create New View
Select All Themes
Add Data
Add Basemap Data
Add in Theme(s)
Excel GPS Points
View Documents:
Theme Documents
Maps/Boring Logs
RSM Website
SOUND

Regional Sediment Management GIS

Data Management

Manac

Dredge Management

Sediment Budget Analysis

Environmental

Impact Evaluatio

- DMMP
- Shore Protectio
- Navigation

US Army Corps of Engineers ®
Mobile District

Partnering

- Leveraging – DMS, HyPAS, SHOALS Toolbox, DMSMART, others
- RSM GIS Technical Working Group
- Internet Map Server (IMS)

Regional Sediment Management Homepage - Microsoft Internet Explorer - [Working
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://gis.sam.usace.army.mil/Projects/RSM/index.htm
Links Hotmail Windows ESRI Support ArcObjects Online Google DynTel GIS Home Dyntel Travel WoWN USACE Online Conversion

Northern Gulf of Mexico Regional Sediment Management Program Demonstration Website

US Army Corps of Engineers
MOBILE DISTRICT

Activites
Coastal Terms
Meeting Info
Program Info
Members
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Project Maps
TWG
Sub-Committees
Sub-Regions
Contact Us

In the past, the US Army Corps of Engineers (USACE) has focused on managing sand at coastal projects on a project-by-project basis. This approach to sand management may not adequately consider the impact of individual projects on down drift projects. To address this issue, the USACE has initiated efforts to assess the benefits of managing sediment resources as a regional scale resource rather than a localized project resource. The concept of Regional Sediment Management (RSM) is a result of the 67th meeting of the Coastal Engineering Research Board (CERB) held in May 1998. (more)

Done
Internet

USACE, RSM GIS Technical Working Group - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites History
Links GIS Home Space Imaging ERDAS ESRI LizardTech Dogpile Yahoo! Travel itinerary Per Diem Rates Google GIS Data Depot
Address http://gis.sam.usace.army.mil/User_Group/RSMGISTWG/mainpage.htm

RSM Technical Working Group

Members
Meetings
Purpose
Resources
Hot Topics

Members of the RSM GIS TWG include all August 30, 2001 workshop participants. Please contact Lynn Hardegree if you do not wish to participate in the TWG, or if you need to add members from your district.

HOT TOPICS

personnel | hardware/software | CHETN | next meeting

GDT DATA

- Geographic Data Technology (GDT) Data is "generic GIS data". Basically, GDT has simpified the steps of creating shapefiles from U.S. Census Bureau's TIGER data. For GDT shapefiles covering your district, contact Nancy Blyler at nancy.j.blyler@hq02.usace.army.mil.

OBTAINING GIS PERSONNEL

- If you are interested in full-time contractors working in-house, contact your Information Management branch and inquire about the personal services contract.
- If you are interested in co-op students, check with local Colleges or Universities. GIS is taught out of Geography Departments at both the undergraduate and graduate levels. Co-ops can be either parallel (they go to school and work at the same time) or they can be alternating (one semester of work followed by one semester of school). Parallel co-ops are part-time and alternating co-ops can be either full or part-time. If you need help locating nearby Geography Departments, please contact Lynn or Rose. Rose has connections with West Chester University which can supply co-ops to both NAP and NAN.

GIS HARDWARE/SOFTWARE (top)

- For GIS software and hardware specs, check out the Resources section

NEW! Recommended GIS Computer Specs now available!

Address https://opjgis.sam.usace.army.mil/

Spatial Data Branch online

US Army Corps of Engineers, Mobile District

Home | Map Room | Data | Services | Projects | User Groups

What's New

- Award Winning IMS Site
- Metadata Server
- GIS Support Site

GIS Information

- What is GIS?
- What We Do
- GIS Presentations

OP-J-GIS News

- ESRI Conference
- Meeting Jack Dangermond
- CADD/GIS Conference

"As a young man, my fondest dream was to become a geographer. However, while working in the customs office I thought deeply about the matter and concluded that it was far too difficult a subject. With some reluctance, I then turned to physics as a substitute."
~Albert Einstein

The Spatial Data Branch, Operations Division, Mobile District is composed of engineers, physical scientists, GIS and remote sensing specialists, hydrographers, and CADD technicians that provide a broad, integrated, team-oriented capability for spatial data collection, processing, analysis and GIS/IMS development.

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Mobile District

Regional Sediment Management: Sub-Region 7 GIS Viewer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

GIS USACE, Regional Sediment Management: Sub-Region 7 home project info help map room

Regional Sediment Management: Sub-Region 7 GIS

Available Tools

Zoom to Scale

Named Coastal Features:

- Axelson Point
- Basin Island
- Bass Hole Cove
- Bay Channel
- Bay Point
- Bayou Chico

Legal Disclaimer

Width of map: 15134 FEET

Map datum: UTM Feet, NAD83, Zone 16

Query/Selection Results - Microsoft Internet Explorer

Bathymetry 01007 - Nov 1995

Rec	EASTING	NORTHING	ELEVATION
1	1794028.18000	11027115.84000	-9.00000
2	1794023.73000	11027161.01000	-9.40000
3	1794033.40000	11027111.66000	-8.60000

Internet Explorer use
use CTRL + F5 to refr
browser

Layer Propert

Refresh

Visible	Active	Label	
☐	○		Bat 001 Bas 200
☐	○		Bat 002 Oct
☐	○		Bat 005 NIM
☐	○		Bat 006 Oct
☐	○		Bat 009 Feb
☑	◉		Bat 010 Nov
☐	○		Bat 011 Nov
☐	○		Con 001 Bas 200
☐	○		Con 002 Oct
☐	○		Con 006 Oct
☐	○		Con 009 Feb
☐	○		Con 010 Nov
☐	○		Con 011 Nov
☐	○		Grid Sur 001 Bas 200
☐	○		Grid Sur 002 Oct
			Grid

Identify

CESAM's Enterprise GIS

US Army Corps of Engineers ®
Mobile District

Visit the Spatial Data Branch Online

- http://gis.sam.usace.army.mil

RSM Implementation Factors

Goal: maximize beneficial use of sediments, minimize environmental impacts, optimize expenditures

Technology + Data + Tools + Management = Implementation

Must integrate into management practice